GENERAL NOTES

UTILITY OWNER	SERVICE
ATLANTA GAS LIGHT	GAS
BELLSOUTH	TELEPHONE
COMCAST	CABLE
GEORGIA POWER COMPANY (DISTRIBUTION)	ELECTRIC DISTRIBUTION
GEORGIA POWER COMPANY (TRANSMISSION)	ELECTRIC TRANSMISSION
FULTON COUNTY	WATER AND SEWER
GDOT	ITS
CITY OF SANDY SPRINGS	ITS

1. ALL EXISTING STORM DRAIN PIPES SHALL BE RETAINED UNLESS OTHERWISE NOTED. PRICE FOR REMOVAL OF EXISTING PIPE & DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE PRICE FOR GRADING COMPLETE.
2. THE CONTRACTOR SHALL REMOVE SILT AND DEBRIS FROM ALL EXISTING AND PROPOSED DRAINAGE STRUCTURES AND PIPE OUTLETS WITHIN THE LIMITS OF OVERLAY. PIPE OUTLETS THAT ARE INSIDE ENVIRONMENTALLY SENSITIVE AREAS SHALL BE LEFT AS IS. PIPES AND CULVERTS THAT ARE RETAINED SHALL BE CLEANED BEFORE ANY WORK BEGINS AND AT THE COMPLETION OF THE PROJECT. THE COST OF THIS WORK SHALL BE INCLUDED IN THE BID PRICE FOR GRADING COMPLETE.
3. A N.O.I. IS REQUIRED FOR THIS PROJECT.
4. ANY SAW CUTTING OF PAVEMENT IS TO BE IN ACCORDANCE WITH SECTION 411 OR SECTION 444 OF THE SPECIFICATIONS. COST IS TO BE INCLUDED IN PRICE FOR GRADING COMPLETE.
5. ALL WASTE SITES, BORROW PITS, AND MATERIAL STOCKPILES SHALL BE ENVIRONMENTALLY APPROVED BEFORE USE.
6. FLEXIBLE DELINEATORS SHALL BE REQUIRED AT ALL NEW CROSS DRAIN END TREATMENTS BOTH INLET AND OUTLET, AND AT MEDIAN DRAIN OUTLETS. PAYMENT FOR END TREATMENTS SHALL INCLUDE DELINEATORS.
7. NO ADDITIONAL PAYMENT SHALL BE MADE FOR ANY TEMPORARY SHORING REQUIRED TO CONSTRUCT THE PROJECT. PRICE FOR SHORING SHALL BE INCLUDED IN THE BID PRICE FOR TRAFFIC CONTROL.
8. THERE IS NO AREA WITHIN THE PROJECT LIMITS TO BURY BRIDGE OR ROADWAY DEBRIS.
9. ALL AREAS OF PAVEMENT AND CURB AND GUTTER REMOVAL SHALL BE SAW CUT. ALL REQUIRED SAW CUTTING SHALL BE INCLUDED IN THE OVERALL PRICE FOR GRADING COMPLETE.

PIPE CULVERT MATERIAL ALTERNATES
FOR PIEDMONT/BLUE RIDGE REGION

TYPE OF PIPE INSTALLATION				CONCRETE	CORRUGATED STEEL AASHTO M-36		CORRUGATED ALUMINUM AASHTO M-196	PLASTIC			
					ALUMINUM COATED (TYPE 2) CORR. STEEL	PLAIN ZINC COATED	PLAIN UNCOATED ALUMINUM	CORR. POLY-ETHYLENE AASHTO M-252	CORR. POLY-ETHYLENE SMOOTHED LINED AASHTO M-294 TYPE "S"	POLY VINYL CHLORIDE (PVC) PROFILE WALL AASHTO M-304	POLY VINYL CHLORIDE (PVC) CORRUGATED SMOOTH INTERIOR ASTM F-949
STORM DRAIN	LONGITUDINAL INTERSTATE AND TRAVEL BEARING			X							
	LONGITUDINAL NON-INTERSTATE AND NON-TRAVEL BEARING			X					X	X	X
	CROSS DRAIN	GRADE ≤ 10%	ADT < 250	X					X	X	X
			250 < ADT < 1500	X					X	X	X
			1500 < ADT < 15000	X					X	X	X
			ADT > 15000	X							
		GRADE > 10%	ADT < 250						X	X	X
			ADT > 250						X	X	X
SIDE DRAIN				X					X	X	X
PERMANENT SLOPE DRAIN					X	X	X		X	X	X
PERFORATED UNDERDRAIN					X	X	X	X	X		X

NOTE:

1. ALLOWABLE MATERIALS ARE INDICATED BY AN "X".
2. STRUCTURAL REQUIREMENTS OF STORM DRAIN PIPE WILL BE IN ACCORDANCE WITH GEORGIA STANDARD 1030-D OR 1030-P, WHICHEVER IS APPLICABLE, AND THE STANDARD SPECIFICATIONS.
3. GRADED AGGREGATE BACKFILL SHALL BE USED IN CROSS DRAIN APPLICATIONS FOR ALL PLASTIC PIPES (AASHTO M-294, HDPE PIPE; AASHTO M-304, PVC PIPE; ASTM F-949, PVC PIPE).
4. THE CONTRACTOR SHALL PROVIDE ADDITIONAL STORM SEWER CAPACITY CALCULATIONS IF A PIPE MATERIAL OTHER THAN CONCRETE IS SELECTED.
5. PIPE USED UNDER MECHANICALLY STABILIZED EARTH (MSE) WALLS, WITHIN MSE WALL BACKFILL, OR WITHIN FIVE FEET OF AN MSE WALL FACE SHALL BE CLASS V CONCRETE PIPE.

CROSS DRAIN AND STORM DRAIN PIPE

UNLESS NOTED OTHERWISE IN THE PLANS, THE PIPE SIZES SPECIFIED FOR CROSS DRAIN PIPES AND STORM DRAIN PIPE ARE BASED ON A MANNING'S "N" DESIGN VALUE OF 0.012. ALTERNATE PIPE MATERIALS WITH MANNING'S "N" DESIGN VALUES LESS THAN OR EQUAL TO 0.012 MAY BE USED AS NOTED IN THE ALLOWABLE PIPE MATERIALS CHART.

THE CONTRACTOR MAY, AT HIS OWN EXPENSE, SUBMIT OTHER DESIGNS CONSIDERING ALTERNATIVE PIPE MATERIALS WITH MANNING'S "N" VALUES GREATER THAN 0.012 TO THE PROJECT ENGINEER FOR APPROVAL. THE SUBMITTED DESIGNS SHALL BE STAMPED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER.

SIDE DRAIN PIPE AND UNDER DRAIN PIPE

ALTERNATE PIPE MATERIALS MAY BE USED AS NOTED IN THE ALLOWABLE PIPE MATERIALS CHART. SIDE DRAIN PIPE IS NORMALLY DESIGNED USING A MANNING'S "N" VALUE FOR A CORRUGATED METAL PIPE. SUBMISSION OF ALTERNATE DESIGNS WITH LESSER FRICTION COEFFICIENTS IS NOT REQUIRED.

ARCADIS
Infrastructure, environment, buildings

REVISION DATES		
02/10/11		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

GENERAL NOTES

ROSWELL ROAD OVER I-285
BRIDGE WIDENING

DRAWING No. 4-01

3/1/2007 GPLM